

Table S1: Overview of variables collected from Pienter participants in 1996, 2007 and 2017

Variable	Source	General definition	Categories ^a	Differences in definitions ^b		
				1996 (PIENTER 1)	2007 (PIENTER 2)	2017 (PIENTER 3)
Sex	population register	The sex by which the person is registered	Female or male	-	-	-
Migration Background	population register	The country with which a person has the closest ties, based on his/her parents' country of birth or his/her own country of birth.	Western (Dutch, Western Non-Dutch (incl. West European countries, Australia, North America, Indonesia and Japan)) or Non-western (Marocco and Turkey, SAN, other Non-western countries)			
Urbanisation	population register	Address density of current residence from population register	very low (<1,000 addresses per square kilometers) or moderate and high (≥ 1,000 addresses per square kilometers)	-	-	-
Education	self-reported	Highest completed education	theoretical (higher professional education, university level education) or practical (all other educations)	-	-	-
Sexual practice	self-reported	Having sexual intercourse with partners with the opposite or same sex	women (all sexual practices), heterosexual men, homosexual/bisexual men	sex partners in the past year	sex partners in the past six months	sex partners in the lifetime
Ct diagnosed ever		Ever diagnosed with Chlamydia	yes or no			
STI diagnosed ever	self-reported	Ever diagnosed with any STI	yes or no	Chlamydia, Hepatitis B, Gonorrhoea, herpes, Genital warts (HPV), Syphilis	Chlamydia, Hepatitis B, Gonorrhoea, herpes, Genital warts (HPV), Syphilis and HIV	Chlamydia, Hepatitis B, Gonorrhoea, herpes, Genital warts (HPV), Syphilis and HIV
Age at first time sex	self-reported	Age at first sexual intercourse	<18 or 18 and above			
Recent sexual partners	self-reported	Number of sex partners	0-1 or 2 and more	sex partners in the past year	sex partners in the past six months	sex partners in the past six months
Regular partner	self-reported	Currently having a regular partner	yes or no	<i>n.c.</i>	-	-
Condom use last sexual contact	self-reported	Condom use during last sexual intercourse	yes or no	<i>n.c.</i>	-	-

Condom use regular partner	self-reported	Condom use during sexual intercourse with regular partner	always, sometimes, never	<i>n.c.</i>	condom use in the past year	condom use in the past six months
Condom use with casual partner	self-reported	Condom use during sexual intercourse with most recent casual partner (including sex for money or drugs)	always, sometimes, never	<i>n.c.</i>	condom use in the past year	condom use in the past six months

^a Missing data are shown as "unknown". Missing data is a mix of "I don't know", "I don't want to say" and not filled in.

^b Inconsistent definitions across study rounds are indicated **bold**.

Abbreviations: *n.c.*: not collected, SAN: Suriname, Aruba and the former Dutch Antilles

Table S2: Weighted number of participants in 1996, 2007 and 2017

	Overall N	1996 N	2007 N	2017 N
Women				
Overall	2138	751	700	686
15-24 years	786	257	255	274
25-39 years	1352	495	445	412
Men				
Overall	2164	766	711	687
15-24 years	791	260	266	265
25-39 years	1373	507	445	421

Please note that these numbers are weighted and do not necessarily correspond to the numbers in Table 1.

Table S3: Chlamydia trachomatis IgG seroprevalence by study round and by age strata for women and men. Chlamydia trachomatis IgG seroprevalence by birth cohort for women and men for 1967-1971, 1972-1976 and 1977-1981. P-value is given for chi-square test between two strata or linear trend in proportions between three strata. P-values are indicated as: *=P<.05 **=P<.01, ***=P<.001

		Women			Men		
		CAT+ (%)	95% CI lower	95% CI upper	CAT+ (%)	95% CI lower	95% CI upper
Age group	Study round						
15-19	1996	3.2%	1.5%	6.6%	5.0%	2.3%	10.5%
	2007	4.7%	2.2%	9.8%	5.8%	2.4%	13.5%
	2017	4.7%	1.7%	12.0%	1.3%	0.2%	8.8%
20-24	1996	7.8%	4.6%	13.0%	4.2%	1.6%	10.2%
	2007	10.3%	6.7%	15.6%	5.7%	2.8%	11.2%
	2017	12.9%	7.4%	21.4%	8.1%	4.1%	15.3%
25-29	1996	13.6%	8.6%	20.8%	3.6%	1.3%	9.2%
	2007	7.0%	4.1%	11.6%	7.0%	2.8%	16.4%
	2017	15.0%	8.9%	24.2%	8.1%	4.1%	15.4%
30-34	1996	16.0%	10.2%	24.2%	7.1%	3.6%	13.8%
	2007	9.8%	5.8%	16.0%	4.9%	2.2%	10.7%
	2017	8.0%	4.3%	14.4%	5.7%	2.7%	11.6%
35-39	1996	16.9%	11.5%	24.3%	3.1%	1.3%	7.0%
	2007	11.2%	7.2%	16.9%	7.9%	4.2%	14.1%
	2017	10.4%	6.0%	17.4%	6.4%	2.6%	14.8%
Birth cohort	Age group						
1956-1960	35-39	16.9%	11.5%	24.3%	3.1%	1.3%	7.0%
	55-59	11.7%	6.1%	21.3%	9.6%	4.9%	17.7%
1961-1965	30-34	16.0%	10.2%	24.2%	7.1%	3.6%	13.8%
	50-54	13.7%	8.5%	21.4%	9.8%	5.7%	16.3%
1967-1971	25-29	13.6%	8.6%	20.8%	3.6%***	1.3%	9.2%
	35-39	11.2%	7.2%	16.9%	7.9%***	4.2%	14.1%
1972-1976	45-49	7.8%	3.8%	15.3%	16.0%***	10.1%	24.4%
	20-24	7.8%	4.6%	13.0%	4.2%	1.6%	10.2%
	30-34	9.8%	5.8%	16.0%	4.9%	2.2%	10.7%

	40-44	2.6%	0.6%	9.9%	10.4%	5.2%	19.5%
	15-19	3.2%**	1.5%	6.6%	5.0%	2.3%	10.5%
1977-1981	25-29	7.0%**	4.1%	11.6%	7.0%	2.8%	16.4%
	35-39	10.4%**	6.0%	17.4%	6.4%	2.6%	14.8%
1982-1987	20-24	10.3%	6.7%	15.6%	5.7%	2.8%	11.2%
	30-34	8.0%	4.3%	14.4%	5.7%	2.7%	11.6%
1988-1992	15-19	4.7%***	2.2%	9.8%	5.8%	2.4%	13.5%
	25-29	15.0%***	8.9%	24.2%	8.1%	4.1%	15.4%